INTERNATIONAL PRELIMINARY EXA	MINING AUTHORITY			
To: JINAN GLASGOW GLASGOW LAW FIRM, PLLC P.O. BOX 28539		PCT		
RALEIGH, NC 27611-8539			WRITTEN OPINION	
	,		(PCT Rule 66)	
		Date of Mailing (day/month/year)	15 NOV 2004	
Applicant's or agent's file reference		REPLY DUE	within 1 months/days from	
1700-002	T 1.51' 1.4		the above date of mailing	
International application No. International filing date		(aay/monin/year)	Priority date (day/month/year)	
PCT/US03/22011 International Patent Classification (IPC)	10 July 2003 (10.07.200		13 July 2002 (13.07.2002)	
		ion and iFC		
IPC(7): A61K 39/38, and US Cl.: 424/18 Applicant	84.1, 192.1, 234.1, 264.1			
THE UNIVERSITY OF GEORGIA RES	EARCH FOUNDATION	, INC.		
1. This written opinion is the fir	st_(first, etc,) drawn by t	this International Pre	liminary Examining Authority.	
2. This opinion contains indicati	ons relating to the followi	ng items:		
I Basis of the opinion	on		·	
II Priority				
III Non-establishmen	t of opinion with regard to	novelty, inventive	step and industrial applicability	
IV 🔀 Lack of unity of it	IV			
V Reasoned statement under Rule 66.2 (a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
VI Certain document	,			
VII Certain defects in	the international application	on		
VIII Certain observation				
 The applicant is hereby invited 	ed to reply to this opinion	1.		
- 1				
	How? By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.			
Also For an additional opportunity to submit amendments, see Rule 66.4. For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis. For an informal communication with the examiner, see Rule 66.6				
If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.				
4. The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 13 November 2004 (13.11.2004)				
Name and mailing address of the IPEA/US Authorized officer				
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents		Authorized officer Robert A. Zeman 7. Robert 7. Telephone No. (571) 272-1600		
P.O. Box 1450 Alexandria, Virginia 22313-1450		Telephone No. 6	571) 272-1600	
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230 Telephone No. (571) 272-1600				



	,		
Internation.		plication	No.

PCT/US03/22011

I.	Basis of the opinion			
1.	With regard to the elements of the international application:*			
	the international application as originally filed			
	the description:			
	pages 1-22, as originally filed			
	pages NONE , filed with the demand			
	pages NONE , filed with the letter of			
	the claims:			
	pages 23-29 , as originally filed			
	pages NONE , as amended (together with any statement) under Article 19			
	pages NONE, filed with the demand pages NONE, filed with the letter of			
	the drawings:			
	pages 1-10 , as originally filed			
	pages NONE, filed with the demand pages NONE, filed with the letter of			
	the sequence listing part of the description:			
	pages 1-3, as originally filed pages NONE, filed with the demand			
	pages NONE , filed with the letter of			
2	With regard to the language, all the elements marked above were available or furnished to this Authority in the			
	language in which the international application was filed, unless otherwise indicated under this item.			
	These elements were available or furnished to this Authority in the following language which is:			
	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).			
	the language of publication of the international application (under Rule 48.3(b)).			
	the language of the translation furnished for the purposes of international preliminary examination (under Rules			
	55.2 and/or 55.3).			
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the written			
	opinion was drawn on the basis of the sequence listing:			
	contained in the international application in printed form.			
	filed together with the international application in computer readable form.			
	furnished subsequently to this Authority in written form.			
furnished subsequently to this Authority in computer readable form.				
The statement that the subsequently furnished written sequence listing does not go beyond the disclosure international application as filed has been furnished.				
	The statement that the information recorded in computer readable form is identical to the written sequence listing			
4	has been furnished.			
4.	The amendments have resulted in the cancellation of:			
	the description, pages NONE			
	the claims, Nos. NONE			
	the drawings, sheets/fig NONE			
5.	This opinion has been drawn as if (some of) the amendments had not been made, since they have been considered to go			
	beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).			
	Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in			
ırus	opinion as "originally filed."			

Form PCT/IPEA/408 (Box I) (July 1998)

WRITTEN OPINION

International application No.

PCT/US03/22011

IV. Lack of unity of invention				
1.	In resp	onse to the invitation (Form PCT/IPEA/405) to restrict or pay additional fees the applicant has: restricted the claims. paid additional fees. paid additional fees under protest. neither restricted nor paid additional fees.		
2.		Authority found that the requirement of unity of invention is not complied with for the following reasons and according to Rule 68.1, not to invite the applicant to restrict or pay additional fees:		
3.		quently, the following parts of the international application were the subject of international preliminary nation in establishing this opinion:		
		all parts. the parts relating to claims Nos. 1-4, 25-29 and 50-62.		

Form PCT/IPEA/408 (Box IV) (July 1998)



International application No. PCT/US03/22011

WRITTEN OPINION

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. STATEMENT				
Novelty (N)	Claims 3-4, 27-28, 51-52 and 55-62	YES		
	Claims 1-2, 25-26, 29, 50 and 53-54	NO		
Inventive Step (IS)	Claims NONE	YES		
	Claims 1-4, 25-29 and 50-62	NO		
Industrial Applicability (IA)	Claims 1-4, 25-29 and 50-62	YES		
	Claims NONE	NO		

2. CITATIONS AND EXPLANATIONS Please See Continuation Sheet

Form PCT/IPEA/408 (Box V) (July 1998)

WRITTEN OPINION

International application No. PCT/US03/22011

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

TIME LIMIT:

The time limit set for response to a Written Opinion may not be extended. 37 CFR 1.484(d). Any response received after the expiration of the time limit set in the Written Opinion will not be considered in preparing the International Preliminary Examination Report.

V. 2. Citations and Explanations:

Claims 1-2, 25-26, 29, 50 and 53-54 lack novelty under PCT Article 33(2) as being anticipated by Kodama et al. (U.S. Patent 5,766,594). Kodama et al. disclose methods of immunizing birds of the order Galliformes by the administration of formulations comprising Mycoplasma gallisepticum wherein said Mycoplasma gallisepticum has similar identifying characteristics to Mycoplasma gallisepticum deposited with the ATCC with the designation PTA-4507.

Claims 1-2, 25-26, 29, 50 and 53-54 lack novelty under PCT Article 33(2) as being anticipated by Kodama et al. (U.S. Patent 5,621,076). Kodama et al. disclose methods of immunizing birds of the order Galliformes by the administration of formulations comprising Mycoplasma gallisepticum wherein said Mycoplasma gallisepticum has similar identifying characteristics to Mycoplasma gallisepticum deposited with the ATCC with the designation PTA-4507.

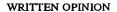
Claims 1-2, 25-26, 29, 50 and 53-54 lack novelty under PCT Article 33(2) as being anticipated by Saito et al. (U.S. Patent 5,489,430). Saito et al. disclose methods of immunizing birds of the order Galliformes by the administration of formulations comprising Mycoplasma gallisepticum wherein said Mycoplasma gallisepticum has similar identifying characteristics to Mycoplasma gallisepticum deposited with the ATCC with the designation PTA-4507.

Claims 1-2, 25-26, 29, 50, and 53-54 lack novelty under PCT Article 33(2) as being anticipated by Radland et al. (U.S. Patent 5,004,607). Ragland et al. disclose methods of immunizing birds of the order Galliformes by the administration of formulations comprising Mycoplasma gallisepticum wherein said Mycoplasma gallisepticum has similar identifying characteristics to Mycoplasma gallisepticum deposited with the ATCC with the designation PTA-4507.

Claims 1-2, 25-26, 29, 50 and 53-54 lack novelty under PCT Article 33(2) as being anticipated by Nippon Zeon Co., LTD (EP 0 603 406 A1). Nippon Zeon Co., LTD disclose methods of immunizing birds of the order Galliformes by the administration of formulations comprising Mycoplasma gallisepticum wherein said Mycoplasma gallisepticum has similar identifying characteristics to Mycoplasma gallisepticum deposited with the ATCC with the designation PTA-4507.

Claims 1-4, 25-29 and 50-62 lack an inventive step under PCT Article 33(3) as being obvious over Kodama et al. (U.S. Patent 5,766,594). Kodama et al. disclose methods of immunizing birds of the order Galliformes by the administration of formulations comprising Mycoplasma gallisepticum wherein said Mycoplasma gallisepticum has similar identifying characteristics to Mycoplasma gallisepticum deposited with the ATCC with the designation PTA-4507. The aforementioned reference does not explicitly disclose the

Form PCT/IPEA/408 (Supplemental Box) (July 1998)



International application No. PCT/US03/22011

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

parameters recited in claims 3-4, 7-8, 11-12, 15-16, 19-20, 23-24, 27-28, 31-32, 35-36, 39-40, 43-44, 47-48, 51-52 and 55-62. However, said parameters are deemed to be obvious variations of the disclosed methods.

Claims 1-4, 25-29 and 50-62 lack an inventive step under PCT Article 33(3) as being obvious over Kodama et al. (U.S. Patent 5,621,076). Kodama et al. disclose methods of immunizing birds of the order Galliformes by the administration of formulations comprising Mycoplasma gallisepticum wherein said Mycoplasma gallisepticum has similar identifying characteristics to Mycoplasma gallisepticum deposited with the ATCC with the designation PTA-4507. The aforementioned reference does not explicitly disclose the parameters recited in claims 3-4, 7-8, 11-12, 15-16, 19-20, 23-24, 27-28, 31-32, 35-36, 39-40, 43-44, 47-48, 51-52 and 55-62. However, said parameters are deemed to be obvious variations of the disclosed methods.

Claims 1-4, 25-29 and 50-62 lack an inventive step under PCT Article 33(3) as being obvious over Saito et al. (U.S. Patent 5,489,430). Saito et al. disclose methods of immunizing birds of the order Galliformes by the administration of formulations comprising *Mycoplasma gallisepticum* wherein said *Mycoplasma gallisepticum* has similar identifying characteristics to *Mycoplasma gallisepticum* deposited with the ATCC with the designation PTA-4507. The aforementioned reference does not explicitly disclose the parameters recited in claims 3-4, 7-8, 11-12, 15-16, 19-20, 23-24, 27-28, 31-32, 35-36, 39-40, 43-44, 47-48, 51-52 and 55-62. However, said parameters are deemed to be obvious variations of the disclosed methods.

Claims 1-4, 25-29 and 50-62 lack an inventive step under PCT Article 33(3) as being obvious over Ragland et al. (U.S. Patent 5,004,607). Ragland et al. disclose methods of immunizing birds of the order Galliformes by the administration of formulations comprising *Mycoplasma gallisepticum* wherein said *Mycoplasma gallisepticum* has similar identifying characteristics to *Mycoplasma gallisepticum* deposited with the ATCC with the designation PTA-4507. The aforementioned reference does not explicitly disclose the parameters recited in claims 3-4, 7-8, 11-12, 15-16, 19-20, 23-24, 27-28, 31-32, 35-36, 39-40, 43-44, 47-48, 51-52 and 55-62. However, said parameters are deemed to be obvious variations of the disclosed methods.

Claims 1-4, 25-29 and 50-62 lack an inventive step under PCT Article 33(3) as being obvious over Nippon Zeon Co., LTD (EP 0 603 406 A1). Nippon Zeon Co., LTD disclose methods of immunizing birds of the order Galliformes by the administration of formulations comprising *Mycoplasma gallisepticum* wherein said *Mycoplasma gallisepticum* has similar identifying characteristics to *Mycoplasma gallisepticum* deposited with the ATCC with the designation PTA-4507. The aforementioned reference does not explicitly disclose the parameters recited in claims 3-4, 7-8, 11-12, 15-16, 19-20, 23-24, 27-28, 31-32, 35-36, 39-40, 43-44, 47-48, 51-52 and 55-62. However, said parameters are deemed to be obvious variations of the disclosed methods.

Claims 1-4, 25-29 and 50-62 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.